

Patent Abstracts of Japan

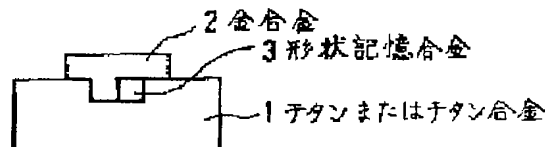
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TITLE : JOINT BODY AND METHOD FOR
JOINTING

ABSTRACT : PURPOSE: To obtain a joint body with high strength and good corrosion resistance without softening easily the jointed interface between a titanium alloy and a gold alloy and spoiling beautiful appearance by inserting and jointing an object to be jointed and a shape memory alloy in a recessed part or a perforated part provided in a joint matrix.

CONSTITUTION: A combination of titanium or a titanium alloy 1 and a gold alloy 2 is used for jointing of a joint matrix and an object to be jointed and the gold alloy 2 which is the object to be jointed and a shape memory alloy 3 are inserted into a recessed part or a perforated part provided in the titanium or the titanium alloy 1 which is the joint matrix. Then, diffusion jointing is performed by heating under a relation of $T_m - 50 \geq T \geq T_m - 400$ (Unit: °C) (wherein T is heating temp. and T_m is the m.p. of the gold alloy). As the titanium and the titanium alloy are jointed under a solid condition like this, the interface for jointing is not changed in shape and a jointed body with excellent corrosion resistance and high strength can be obtd.

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